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Leu Met Lys Ser Cys Leu Ala Phe Lys Asn Asp Ala Thr Glu Ile Leu

Tyr Ser His Val Val Lys Pro Val Pro Ala His Pro Ser Ser Asn Ser

Thr Leu Asn Gln Ala Arg Asn Gly Gly Arg His Phe Ser Asn Thr Gly

Leu Asp Arg Asn Thr Arg Val Gln Val Gly Cys Arg Glu Leu Arg Ser

Thr Lys Tyr Ile Ser Asp Gly Gln Cys Thr Ser Ile Ser Pro Leu Lys

Glu Leu Val Cys Ala Gly Glu Cys Leu Pro Leu Pro Val Leu Pro Asn 100 105

Trp Ile Gly Gly Gly Tyr Gly Thr Lys Tyr Trp Ser Arg Arg Ser Ser 120

Gln Glu Trp Arg Cys Val Asn Asp Lys Thr Arg Thr Gln Arg Ile Gln 130

Leu Gln Cys Gln Asp Gly Ser Thr Arg Thr Tyr Lys Ile Thr Val Val 145 150 155

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gtaaaacgac ggccagt 17
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ggaaacagct atgaccatg 19
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His Leu Thr Arg Leu Ala Leu Ser Thr Cys Pro Ala Ala Cys His Cys
            20
                                25
                                                     3.0
Pro Leu Glu Ala Pro Lys Cys Ala Pro Gly Val Gly Leu Val Arg Asp
        35
                            40
                                                 45
Gly Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp Cys
    50
                        55
Ser Lys Thr Gln Pro Cys Asp His Thr Lys Gly Leu Glu Cys Asn Phe
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75

70

65

- Gly Ala Ser Ser Thr Ala Leu Lys Gly Ile Cys Arg Ala Gln Ser Glu 85 90 95
- Gly Arg Pro Cys Glu Tyr Asn Ser Arg Ile Tyr Gln Asn Gly Glu Ser 100 105 110
- Phe Gln Pro Asn Cys Lys His Gln Cys Thr Cys Ile Asp Gly Ala Val
- Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly 130 135 140
- Cys Pro Asn Pro Arg Leu Val Lys Val Ser Gly Gln Cys Cys Glu Glu 145 150 155 160
- Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Ser Leu Asp Asp Gln Asp 165 170 175
- Asp Leu Leu Gly Leu Asp Ala Ser Glu Val Glu Leu Thr Arg Asn Asn 180 185 190
- Glu Leu Ile Ala Ile Gly Lys Gly Ser Ser Leu Lys Arg Leu Pro Val 195 200 205
- Phe Gly Thr Glu Pro Arg Val Leu Phe Asn Pro Leu His Ala His Gly 210 215 220
- Gln Lys Cys Ile Val Gln Thr Thr Ser Trp Ser Gln Cys Ser Lys Ser 225 230 235 240
- Cys Gly Thr Gly Ile Ser Thr Arg Val Thr Asn Asp Asn Pro Glu Cys 245 250 255
- Arg Leu Val Lys Glu Thr Arg Ile Cys Glu Val Arg Pro Cys Gly Gln 260 265 270
- Pro Val Tyr Ser Ser Leu Lys Lys Gly Lys Lys Cys Ser Lys Thr Lys 275 280 285
- Lys Ser Pro Glu Pro Val Arg Phe Thr Tyr Ala Gly Cys Ser Ser Val 290 295 300
- Lys Lys Tyr Arg Pro Lys Tyr Cys Gly Ser Cys Val Asp Gly Arg Cys 305 310 315

Cys Thr Pro Leu Gln Thr Arg Thr Val Lys Met Arg Phe Arg Cys Glu 325

Asp Gly Glu Met Phe Ser Lys Asn Val Met Met Ile Gln Ser Cys Lys 345

Cys Asn Tyr Asn Cys Pro His Pro Asn Glu Ala Ser Phe Arg Leu Tyr

Ser Leu Phe Asn Asp Ile His Lys Phe Arg Asp 370 375

<210> 12 <211> 373 <212> PRT <213> Homo sapiens

<400> 12

Met Ser Ser Arg Ile Val Arg Glu Leu Ala Leu Val Val Thr Leu Leu 1 5 10 15

His Leu Thr Arg Val Gly Leu Ser Thr Cys Pro Ala Asp Cys His Cys
20 25 30

Pro Gly Leu Glu Cys Asn Phe Gly Ala Ser Ser Thr Ala Leu Lys Gly 35 40 45

Ile Cys Arg Ala Gln Ser Glu Gly Arg Pro Cys Glu Tyr Asn Ser Arg 50 55 60

Ile Tyr Gln Asn Gly Glu Ser Phe Gln Pro Asn Cys Lys His Gln Cys 65 70 75 80

Thr Cys Ile Leu Glu Ala Pro Lys Cys Ala Pro Gly Val Gly Leu Arg 85 90 95

Asp Gly Cys Gly Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp 100 105 110

Cys Arg Lys Thr Gln Pro Cys Asp His Thr Lys Gly Trp Arg Arg Gly
115 120 125

Ala Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly 130 135 140

Cys Pro Asn Pro Arg Leu Val Lys Val Thr Gly Gln Cys Cys Glu Glu

Trp Val Cys Asp Glu Asp Ser Ile Lys Asp Pro Met Glu Asp Gln Asp 165 170 175

Gly Leu Leu Gly Lys Gly Leu Gly Phe Asp Ala Ser Glu Val Glu Leu 180 185 190

Thr Arg Asn Asn Glu Leu Ile Ala Val Gly Lys Gly Ser Ser Leu Lys 195 200 205

Arg Leu Pro Val Phe Gly Met Glu Pro Arg Ile Leu Tyr Asn Pro Leu 210 215 220

Gln Gly Gln Lys Cys Thr Lys Lys Ser Pro Glu Pro Val Arg Phe Thr 225 230 235 240

Tyr Ala Gly Cys Leu Ser Val Lys Lys Tyr Arg Pro Lys Tyr Cys Gly
245 250 255

Ser Cys Val Asp Gly Arg Cys Cys Thr Pro Gln Leu Thr Arg Thr Val 260 265 270

Lys Met Arg Phe Pro Cys Glu Ile Val Gln Thr Thr Ser Trp Ser Gln 275 280 285

Cys Ser Lys Thr Cys Gly Thr Gly Ile Ser Thr Arg Val Thr Asn Asp 290 295 300

Asn Pro Glu Cys Arg Leu Val Lys Glu Thr Arg Ile Cys Glu Val Arg 305 310 315 320

Pro Cys Gly Gln Pro Val Tyr Ser Ser Leu Lys Lys Gly Lys Lys Cys 325 330 335

Ser Lys Asp Gly Glu Thr Phe Ser Lys Asn Val Met Met Ile Gln Ser 340 345 350

Ser Lys Cys Asn Tyr Asn Cys Pro His Ala Asn Glu Ala Ala Phe Pro 355 360 365

Phe Tyr Arg Leu Phe 370

<210> 13

<211> 375 <212> PRT <213> Gallus gallus

<400> 13

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Leu Ala Arg Leu Ala Leu Gly Ser Pro Cys Pro Ala Val Cys Gln Cys 25

Pro Ala Ala Pro Gln Cys Ala Pro Gly Val Gly Leu Val Pro Asp 40

Gly Cys Gly Cys Cys Lys Val Cys Ala Lys Gln Leu Asn Glu Asp Cys 50 55

Ser Arg Thr Gln Pro Cys Asp His Thr Lys Gly Leu Glu Cys Asn Phe 70 75

Gly Ala Ser Pro Ala Ala Thr Asn Gly Ile Cys Arg Ala Gln Ser Glu 90

Gly Arg Pro Cys Glu Tyr Asn Ser Lys Ile Tyr Gln Asn Gly Glu Ser 100 105

Phe Gln Pro Asn Cys Lys His Gln Cys Thr Cys Ile Asp Gly Ala Val

Gly Cys Ile Pro Leu Cys Pro Gln Glu Leu Ser Leu Pro Asn Leu Gly

Cys Pro Ser Pro Arg Leu Val Lys Val Pro Gly Gln Cys Cys Glu Glu

Trp Val Cys Asp Glu Ser Lys Asp Ala Leu Glu Glu Leu Glu Gly Phe

Phe Ser Lys Glu Phe Gly Leu Asp Ala Ser Glu Gly Glu Leu Thr Arg

Asn Asn Glu Leu Ile Ala Ile Val Lys Gly Gly Leu Lys Met Leu Pro 200

Val Phe Gly Ser Glu Pro Gln Ser Arg Ala Phe Glu Asn Pro Lys Cys 215 220

Ile Val Gln Thr Thr Ser Trp Ser Gln Cys Ser Lys Thr Cys Gly Thr 225 230 235 240

Gly Ile Ser Thr Arg Val Thr Asn Asp Asn Pro Asp Cys Lys Leu Ile 245 250 255

Lys Glu Thr Arg Ile Cys Glu Val Arg Pro Cys Gly Gln Pro Ser Tyr 260 265 270

Ala Ser Leu Lys Lys Gly Lys Lys Cys Thr Lys Thr Lys Lys Ser Pro 275 280 285

Ser Pro Val Arg Phe Thr Tyr Ala Gly Cys Ser Ser Val Lys Lys Tyr 290 295 300

Arg Pro Lys Tyr Cys Gly Ser Cys Val Asp Gly Arg Cys Cys Thr Pro 305 310 315 320

Gln Gln Thr Arg Thr Val Lys Ile Arg Phe Arg Cys Asp Asp Gly Glu 325 330 335

Thr Phe Thr Lys Ser Val Met Met Ile Gln Ser Cys Arg Cys Asn Tyr 340 345 350

Asn Cys Pro His Ala Asn Glu Ala Tyr Pro Phe Tyr Arg Leu Val Asn 355 360 365

Asp Ile His Lys Phe Arg Asp 370 375

<210> 14

<211> 349

<212> PRT

<213> Homo sapiens

<400> 14

Met Thr Ala Ala Ser Met Gly Pro Val Arg Val Ala Phe Val Val Leu

5 10 15

Leu Ala Leu Cys Ser Arg Pro Ala Val Gly Gln Asn Cys Ser Gly Pro 20 25 30

Cys Arg Cys Pro Asp Glu Pro Ala Pro Arg Cys Pro Ala Gly Val Ser 35 40 45

Leu	Val	Leu	Asp	Gly	Cys	Gly	Cys	Cys	Arg	Val	Cys	Ala	Lys	Gln	Leu
	50					55					60				

Gly Glu	Leu	Cys	Thr	Glu	Arg	Asp	Pro	Cys	Asp	Pro	His	Lys	Gly	Leu
65				70					75					80

Phe	Cys	Asp	Phe	Gly	Ser	Pro	Ala	Asn	Arg	Lys	Ile	Gly	Val	Cys	Thr
				85					90					95	

Asp Gly Arg Cys Cys Thr Pro His Arg Thr Thr Thr Leu Pro Val Glu 290 295 300

Phe Lys Cys Pro Asp Gly Glu Val Met Lys Lys Asn Met Met Phe Ile 305 310 315

Lys Thr Cys Ala Cys His Tyr Asn Cys Pro Gly Asp Asn Asp Ile Phe 325 330 335

Glu Ser Leu Tyr Tyr Arg Lys Met Tyr Gly Asp Met Ala 340 345

<210> 15

<211> 348

<212> PRT

<213> Mus musculus

<400> 15

Met Leu Ala Ser Val Ala Gly Pro Ile Ser Leu Ala Leu Val Leu Leu 1 5 10 15

Ala Leu Cys Thr Arg Pro Ala Thr Gly Gln Asp Cys Ser Ala Gln Cys
20 25 30

Gln Cys Ala Ala Glu Ala Ala Pro His Cys Pro Ala Gly Val Ser Leu  $35 \hspace{1cm} 40 \hspace{1cm} \cdot 45$ 

Val Leu Asp Gly Cys Gly Cys Cys Arg Val Cys Ala Lys Gln Leu Gly 50 55 60

Glu Leu Cys Thr Glu Arg Asp Pro Cys Asp Pro His Lys Gly Leu Phe 65 70 75 80

Cys Asp Phe Gly Ser Pro Ala Asn Arg Lys Ile Gly Val Cys Thr Ala 85 90 95

Lys Asp Gly Ala Pro Cys Val Phe Gly Gly Ser Val Tyr Arg Ser Gly 100 105 110

Glu Ser Phe Gln Ser Ser Cys Lys Tyr Gln Cys Thr Cys Leu Asp Gly
115 120 125

Ala Val Gly Cys Val Pro Leu Cys Ser Met Asp Val Arg Leu Pro Ser 130 140

Pro Asp Cys Pro Phe Pro Arg Arg Val Lys Leu Pro Gly Lys Cys Cys Glu Glu Trp Val Cys Asp Glu Pro Lys Asp Arg Thr Ala Val Gly Pro 170 Ala Leu Ala Ala Tyr Arg Leu Glu Asp Thr Phe Gly Pro Asp Pro Thr 185 Met Met Arg Ala Asn Cys Leu Val Gln Thr Thr Glu Trp Ser Ala Cys 195 Ser Lys Thr Cys Gly Met Gly Ile Ser Thr Arg Val Thr Asn Asp Asn 210 215 Thr Phe Cys Arg Leu Glu Lys Gln Ser Arg Leu Cys Met Val Arg Pro 230 Cys Glu Ala Asp Leu Glu Glu Asn Ile Lys Lys Gly Lys Lys Cys Ile 250 Arg Thr Pro Lys Ile Ala Lys Pro Val Lys Phe Glu Leu Ser Gly Cys 260 265 Thr Ser Val Lys Thr Tyr Arg Ala Lys Phe Cys Gly Val Cys Thr Asp 280 Gly Arg Cys Cys Thr Pro His Arg Thr Thr Leu Pro Val Glu Phe 295 Lys Cys Pro Asp Gly Glu Ile Met Lys Lys Asn Met Met Phe Ile Lys 315 Thr Cys Ala Cys His Tyr Asn Cys Pro Gly Asp Asn Asp Ile Phe Glu 330 Ser Leu Tyr Tyr Arg Lys Met Tyr Gly Asp Met Ala <210> 16 <211> 351 <212> PRT <213> Gallus gallus <400> 16

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Leu Leu Arg Pro Cys Glu Val Ser Gly Arg Glu Ala Ala Cys Pro
20 25 30

Arg Pro Cys Gly Gly Arg Cys Pro Ala Glu Pro Pro Arg Cys Ala Pro
35 40 45

Gly Val Pro Ala Val Leu Asp Gly Cys Gly Cys Cys Leu Val Cys Ala
50 60

Arg Gln Arg Gly Glu Ser Cys Ser Pro Leu Leu Pro Cys Asp Glu Ser 65 70 75 80

Gly Gly Leu Tyr Cys Asp Arg Gly Pro Glu Asp Gly Gly Gly Ala Gly
85 90 95

Ile Cys Met Val Leu Glu Gly Asp Asn Cys Val Phe Asp Gly Met Ile
100 105 110

Tyr Arg Asn Gly Glu Thr Phe Gln Pro Ser Cys Lys Tyr Gln Cys Thr 115 120 125

Cys Arg Asp Gly Gln Ile Gly Cys Leu Pro Arg Cys Asn Leu Gly Leu 130 135 140

Leu Leu Pro Gly Pro Asp Cys Pro Phe Pro Arg Lys Ile Glu Val Pro 145 150 155 160

Gly Glu Cys Cys Glu Lys Trp Val Cys Asp Pro Arg Asp Glu Val Leu 165 170 175

Leu Gly Gly Phe Ala Met Ala Ala Tyr Arg Gln Glu Ala Thr Leu Gly
180 185 190

Ile Asp Val Ser Asp Ser Ser Ala Asn Cys Ile Glu Gln Thr Thr Glu
195 200 205

Trp Ser Ala Cys Ser Lys Ser Cys Gly Met Gly Phe Ser Thr Arg Val 210 215 220

Thr Asn Arg Asn Gln Gln Cys Glu Met Val Lys Gln Thr Arg Leu Cys 225 230 235 240

Met Met Arg Pro Cys Glu Asn Glu Glu Pro Ser Asp Lys Lys Gly Lys

245 250 255

Lys Cys Ile Gln Thr Lys Lys Ser Met Lys Ala Val Arg Phe Glu Tyr 260 265 270

Lys Asn Cys Thr Ser Val Gln Thr Tyr Lys Pro Arg Tyr Cys Gly Leu 275 280 285

Cys Asn Asp Gly Arg Cys Cys Thr Pro His Asn Thr Lys Thr Ile Gln 290 295 300

Val Glu Phe Arg Cys Pro Gln Gly Lys Phe Leu Lys Lys Pro Met Met 305 310 315 320

Leu Ile Asn Thr Cys Val Cys His Gly Asn Cys Pro Gln Ser Asn Asn 325 330 335

Ala Phe Phe Gln Pro Leu Asp Pro Met Ser Ser Glu Ala Lys Ile 340 345 350

<210> 17

<211> 357

<212> PRT

<213> Homo sapiens

<400> 17

Met Gln Ser Val Gln Ser Thr Ser Phe Cys Leu Arg Lys Gln Cys Leu 1 5 10 15

Cys Leu Thr Phe Leu Leu Leu His Leu Leu Gly Gln Val Ala Ala Thr 20 25 30

Gln Arg Cys Pro Pro Gln Cys Pro Gly Arg Gly Leu Tyr Cys Asp Arg
35 40 45

Ser Ala Asp Pro Ser Asn Gln Thr Gly Ile Cys Thr Ala Val Glu Gly 50 55 60

Asp Asn Cys Val Phe Asp Gly Cys Ile Tyr Arg Ser Gly Glu Lys Phe 65 70 75 80

Gln Pro Ser Cys Lys Phe Gln Cys Thr Cys Arg Cys Pro Ala Thr Pro 85 90 95

Pro Thr Cys Ala Pro Gly Val Arg Ala Val Leu Asp Gly Cys Ser Cys 100 105 110

Cys	Leu	Val 115	Cys	Ala	Arg	Gln	Arg 120	Gly	Glu	Ser	Cys	Ser 125	Asp	Leu	Glu
Pro	Cys 130	Asp	Glu	Ser	Ser	Asp 135	Gly	Gln	Ile	Gly	Cys 140	Val	Pro	Arg	Cys
Gln 145	Leu	Asp	Val	Leu	Leu 150	Pro	Glu	Pro	Asn	Cys 155	Pro	Ala	Pro	Arg	Lys 160
Val	Glu	Val	Pro	Gly 165	Glu	Суз	Cys	Glu	Lys 170	Trp	Ile	Cys	Gly	Pro 175	Asp
Glu	Glu	Asp	Ser 180	Leu	Gly	Gly	Leu	Thr 185	Leu	Ala	Ala	Tyr	Arg 190	Pro	Glu
Ala	Thr	Leu 195	Gly	Val	Glu	Val	Ser 200	Asp	Ser	Ser	Val	Asn 205	Суз	Thr	Lys
Lys	Ser 210	Leu	Lys	Ala	Ile	His 215	Leu	Gln	Phe	Lys	Asn 220	Cys	Thr	Ser	Leu

225 230 235 240

Cys Thr Pro His Asn Thr Lys Thr Ile Gln Ala Glu Phe Gln Cys Ser

245

250

255

His Thr Tyr Lys Pro Arg Phe Cys Gly Val Cys Ser Asp Gly Arg Cys

Ile Glu Gln Thr Thr Glu Trp Thr Ala Cys Ser Lys Ser Cys Gly Met 260 . 265 . 270

Gly Phe Ser Thr Arg Val Thr Asn Arg Asn Arg Gln Cys Glu Met Leu 275 280 285

Lys Gln Thr Arg Leu Cys Met Val Arg Pro Cys Glu Gln Glu Pro Glu 290 295 300

Gln Pro Thr Asp Lys Lys Gly Lys Lys Cys Leu Arg Pro Gly Gln Ile 305 310 315 320

Val Lys Lys Pro Val Met Val Ile Gly Thr Cys Thr Cys His Thr Asn 325 330 335

Cys Pro Lys Asn Asn Glu Ala Phe Leu Gln Glu Leu Glu Leu Lys Thr 340 345 350

Thr Arg Gly Lys Met 355

<210> 18

<211> 184

<212> PRT

<213> Homo sapiens

<400> 18

Met Lys Ser Val Leu Leu Thr Thr Leu Leu Val Pro Ala His Leu

1 10 15

Val Ala Ala Trp Ser Asn Asn Tyr Ala Val Asp Cys Pro Gln His Cys 20 25 30

Asp Ser Ser Gly Glu Asp Pro Phe Gly Glu Glu Phe Gly Ile Cys Lys 35 40 45

Asp Cys Pro Tyr Gly Thr Phe Gly Met Asp Cys Arg Glu Thr Cys Asn 50 60

Cys Gln Ser Gly Ile Cys Asp Arg Gly Thr Gly Lys Glu Cys Lys Ser 65 70 75 80

Ser Pro Arg Cys Lys Arg Thr Val Leu Asp Asp Cys Gly Cys Cys Arg 85 90 95

Val Cys Ala Ala Gly Arg Gly Glu Thr Cys Tyr Arg Thr Val Ser Gly
100 105 110

Met Asp Gly Met Lys Cys Gly Pro Gly Leu Arg Cys Gln Pro Ser Asn 115 120 125

Cys Leu Lys Phe Pro Phe Phe Gln Tyr Ser Val Thr Lys Ser Ser Asn 130 135 140

Arg Phe Val Ser Leu Thr Glu His Asp Met Ala Ser Gly Asp Gly Asn 145 150 155 160

Ile Val Arg Glu Glu Val Val Lys Glu Asn Ala Ala Gly Ser Pro Val
165 170 175

Met Arg Lys Trp Leu Asn Pro Arg 180

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- Val Leu Leu Arg Gly Pro Pro Val Ala Arg Ala Gly Ala Ser Ser Gly 20
- Gly Leu Gly Pro Val Val Arg Cys Glu Pro Cys Asp Ala Arg Ala Leu 35 40
- Ala Gln Cys Ala Pro Pro Pro Ala Val Cys Ala Glu Leu Val Arg Glu 50 55
- Pro Gly Cys Gly Cys Cys Leu Thr Cys Ala Leu Ser Glu Gly Gln Pro 70
- Cys Gly Ile Tyr Thr Glu Arg Cys Gly Ser Gly Leu Arg Cys Gln Pro
- Ser Pro Asp Glu Ala Arg Pro Leu Gln Ala Leu Leu Asp Gly Arg Gly 100
- Leu Cys Val Asn Ala Ser Ala Val Ser Arg Leu Arg Ala Tyr Leu Leu 120
- Pro Ala Pro Pro Ala Pro Gly Asn Ala Ser Glu Ser Glu Glu Asp Arg 130 135
- Ser Ala Gly Ser Val Glu Ser Pro Ser Val Ser Ser Thr His Arg Val 150
- Ser Asp Pro Lys Phe His Pro Leu His Ser Lys Ile Ile Ile Lys 165 170
- Lys Gly His Ala Lys Asp Ser Gln Arg Tyr Lys Val Asp Tyr Glu Ser 180 185
- Gln Ser Thr Asp Thr Gln Asn Phe Ser Ser Glu Ser Lys Arq Glu Thr 195 200

Glu Tyr Gly Pro Cys Arg Arg Glu Met Glu Asp Thr Leu Asn His Leu 210 215 220

Lys Phe Leu Asn Val Leu Ser Pro Arg Gly Val His Ile Pro Asn Cys 225 230 235 240

Asp Lys Lys Gly Phe Tyr Lys Lys Gln Cys Arg Pro Ser Lys Gly 245 250 255

Arg Lys Arg Gly Phe Cys Trp Cys Val Asp Lys Tyr Gly Gln Pro Leu 260 265 270

Pro Gly Tyr Thr Thr Lys Gly Lys Glu Asp Val His Cys Tyr Ser Met 275 280 285

Gln Ser Lys 290